Index of Claims

10/510,561

Examiner

William P. Watkins III

Applicant(s)/Patent under Reexamination

OGAWA ET AL.

Art Unit

1772

Rejected Allowed

(Through numeral) Cancelled

Restricted

Non-Elected N Interference

**Appeal** 0 Objected

|  |  |          |              |  |          |              | J        |                                | <u> </u> |           |
|--|--|----------|--------------|--|----------|--------------|----------|--------------------------------|----------|-----------|
|  |  |          |              |  |          |              |          |                                |          |           |
| Cla  | aim  | _        |              |  |          | Dat          | <u>e</u> |                                |          |           |
| Final  | Original   | 5        |              |  |          |              |          |                                |          |           |
|  | 1  | 9        |              |  | _        | _            |          |                                |          |           |
| <del> </del>                                     | 1/35   | 7        | _            | <del> </del>                                     | ┢╾       | -            | _        | 一                              | $\vdash$ |           |
|  | 3  | K        | -            | $\vdash$   | $\vdash$ | $\vdash$     | $\vdash$ | ┢                              | ├        |           |
| <del> </del>                                     | 4  | 1        | _            | ┢  | -        |              | ┥        | ├                              | ⊢        | -         |
| $\vdash$   | 5  | +        |              | <del>                                     </del> | -        | -            | -        | $\vdash$                       | $\vdash$ | $\vdash$  |
| <u> </u>   | 2  | H        | _            | ┢  | ⊢        | -            | -        | -                              | -        | H         |
| <del>                                     </del> | 7  | ╫        |              | -  | -        | -            | ┝        | <u> </u>                       | $\vdash$ | $\vdash$  |
| _  | 8  | ╫        |              | -  | -        | -            | ⊢        |                                | ┝        | _         |
|  | a  | Н        |              | -  | _        |              |          | -                              | ┢        | $\vdash$  |
|  | 10   | ,1/      |              | $\vdash$   |          |              | $\vdash$ | $\vdash$                       | $\vdash$ |           |
| -  | 2<br>3<br>4<br>5<br>6<br>7<br>8<br>9<br>10   | V-       |              | -  | -        |              |          |                                |          |           |
|  | 12   | Т        |              | T  | $\vdash$ | Г            | T        | $\vdash$                       | ┰        | $\Box$    |
|  | 13   | Г        |              | T  |          |              |          | T                              |          |           |
|  | 14   | İ        |              |  |          |              |          |                                |          | П         |
|  | 15   |          |              |  |          |              |          |                                |          |           |
|  | 16   |          |              |  |          |              |          |                                |          |           |
|  | 17   | _        | _            | <u> </u>   | _        |              |          | L.                             |          | Ш         |
|  | 18   |          |              | _  | <u> </u> |              | <u> </u> | L                              | <u> </u> | Ш         |
|  | 19   | L        |              | <u> </u>   | _        |              | L        |                                | $\vdash$ | Ш         |
| -  | 20   | _        | _            | ⊢  | <u> </u> | -            | ├—       |                                | $\vdash$ | Н         |
|  | 22   |          | <del> </del> | ├  |          |              | $\vdash$ | -                              | $\vdash$ | $\vdash$  |
|  | 23   | -        | -            | -  | $\vdash$ | $\vdash$     | ⊢        | -                              | -        | Н         |
|  | 24   |          | _            |  | $\vdash$ |              | 一        |                                | -        | Н         |
|  | 25   |          |              |  |          |              | Г        |                                |          |           |
|  | 26   |          |              |  |          |              |          |                                |          |           |
|  | 27   |          |              |  |          |              | _        |                                |          |           |
|  | 28   | _        |              |  | <u> </u> | <u> </u>     | <u> </u> |                                |          | Щ         |
|  | 29   | _        |              |  | _        | <u> </u>     | _        | _                              | $\vdash$ | Ц         |
|  | 30   |          |              | _  | ⊢        | <del> </del> |          | -                              | $\vdash$ | Н         |
| -  | 12<br>13<br>14<br>15<br>16<br>17<br>18<br>19<br>20<br>21<br>22<br>23<br>24<br>25<br>26<br>27<br>28<br>29<br>30<br>31<br>32<br>33<br>34<br>35 | $\vdash$ |              | $\vdash$   | $\vdash$ |              |          | $\vdash$                       | $\vdash$ | $\dashv$  |
| -  | 33   | $\vdash$ | _            | H  | H        | <del> </del> |          | $\vdash$                       | $\vdash$ | Н         |
|  | 34   |          |              |  | $\vdash$ | <del> </del> | 一        | 一                              |          | $\vdash$  |
|  | 35   |          |              |  | <u> </u> |              |          |                                |          |           |
|  | 36   |          |              |  |          |              |          |                                |          |           |
|  | 37<br>38   |          |              |  | Ľ        |              | <u> </u> | $oxedsymbol{oxedsymbol{oxed}}$ | Ш        | Ш         |
|  | 38   | Щ        | _            | <u> </u>   | <u> </u> | _            |          | Ц.                             |          | $\square$ |
|  | 39   | $\vdash$ | _            |  | <u> </u> | _            | ļ        | _                              |          | Н         |
| <del></del>                                      | 40<br>41   | $\vdash$ |              | <u> </u>   | <u> </u> | $\vdash$     | ⊢        | ├-                             | H        | Н         |
| <u> </u>   | 41   | $\vdash$ |              |  | $\vdash$ |              | -        | <u> </u>                       | -        | $\vdash$  |
| $\vdash$   | 43   |          |              | -  | -        | $\vdash$     | $\vdash$ | -                              |          | $\dashv$  |
| $\vdash$   | 44   | $\vdash$ | -            | Ι-   | Н        | Н            | Н        |                                |          | $\dashv$  |
|  | 45   |          |              |  |          |              |          |                                |          |           |
|  | 46   |          |              |  |          |              |          |                                |          |           |
|  | 47   |          |              |  |          |              |          | $oxed{\Box}$                   |          | Щ         |
| <u> </u>   | 48   |          |              |  |          |              | ļ        | _                              | <u> </u> | $\square$ |
| $\vdash$   | 49   | Ш        |              | <u> </u>   | <u> </u> | <u> </u>     | <u> </u> | <del> </del>                   | $\vdash$ | $\dashv$  |
|  | 50   | Ш        |              |  | <u> </u> |              |          |                                |          |           |

| Claim    |                            | Date         |          |          |          |          |               |                |  |                 |  |  |  |  |
|----------|----------------------------|--------------|----------|----------|----------|----------|---------------|----------------|--|-----------------|--|--|--|--|
| -        | l .                        | _            | Τ        | Γ        | _        | <u> </u> | Ī             | Γ              | Γ.   |                 |  |  |  |  |
| ā        | Original                   |              |          |          | ĺ        |          |               |                |  |                 |  |  |  |  |
| Final    | <u>.</u> Ē                 |              |          |          |          |          | ļ             |                |  |                 |  |  |  |  |
|          | 0                          |              |          |          |          |          |               |                |  |                 |  |  |  |  |
|          | 51                         |              | T        | Т        | $\vdash$ |          | $\vdash$      |                | <del>                                     </del> | ┰               |  |  |  |  |
|          | 51<br>52                   |              |          |          |          |          |               |                |  | Г               |  |  |  |  |
|          | 53                         | $\vdash$     |          |          |          |          | T             |                | Г  |                 |  |  |  |  |
|          | 54                         |              | $\vdash$ | $\vdash$ | _        |          |               |                |  | Т               |  |  |  |  |
|          | 54<br>55                   |              |          |          |          |          |               |                |  | Т               |  |  |  |  |
|          | 56                         |              |          |          |          |          |               | _              |  | Г               |  |  |  |  |
|          | 57                         |              |          |          |          |          |               |                |  |                 |  |  |  |  |
|          | 58                         |              |          |          |          |          |               |                |  |                 |  |  |  |  |
|          | 59                         |              |          | Г        |          |          |               |                |  |                 |  |  |  |  |
|          | 60                         |              |          |          |          |          |               |                |  |                 |  |  |  |  |
|          | 61                         |              |          |          |          |          |               |                |  |                 |  |  |  |  |
|          | 62                         |              | Γ        |          | Γ_       | П        |               |                |  |                 |  |  |  |  |
|          | 62<br>63                   |              |          |          |          |          |               |                |  |                 |  |  |  |  |
|          | 64<br>65                   |              |          |          |          |          |               |                |  |                 |  |  |  |  |
|          | 65                         |              |          |          |          |          |               |                |  |                 |  |  |  |  |
|          | 66                         |              |          |          |          |          |               |                |  |                 |  |  |  |  |
|          | 67                         |              |          |          |          |          |               |                |  |                 |  |  |  |  |
|          | 68                         |              |          |          |          |          |               |                |  |                 |  |  |  |  |
|          | 68<br>69<br>70             |              |          |          |          | Π        |               |                |  |                 |  |  |  |  |
|          | 70                         |              |          |          |          |          |               |                |  |                 |  |  |  |  |
|          | 71                         |              |          |          |          |          |               |                |  |                 |  |  |  |  |
|          | 72                         |              |          |          |          |          |               |                |  |                 |  |  |  |  |
|          | 71<br>72<br>73<br>74<br>75 |              |          |          |          |          |               |                |  |                 |  |  |  |  |
|          | 74                         |              |          |          |          |          |               |                |  |                 |  |  |  |  |
|          | 75                         |              |          |          |          |          | _             | _              |  |                 |  |  |  |  |
| <u></u>  | 76                         |              | _        |          |          |          |               |                |  |                 |  |  |  |  |
|          | 76<br>77                   |              | <u> </u> |          |          |          | <u> </u>      |                |  |                 |  |  |  |  |
|          | 78                         |              | <u> </u> |          |          | <u> </u> | _             |                |  |                 |  |  |  |  |
|          | 79                         |              |          |          |          | <u>_</u> | <u> </u>      |                |  |                 |  |  |  |  |
|          | 80                         | _            | L        |          |          | _        | $oxed{oxed}$  |                |  |                 |  |  |  |  |
|          | 81                         |              | L_       |          |          | L        | L             |                |  |                 |  |  |  |  |
|          | 82<br>83                   |              | L_       |          |          | <u> </u> |               | _              |  | $oxed{oxed}$    |  |  |  |  |
|          | 83                         | L_           | $\vdash$ | ldash    |          | <u> </u> |               | <u> </u>       | <u> </u>   | Щ               |  |  |  |  |
|          | 84                         |              | <u> </u> | <u> </u> |          | <u> </u> | $\vdash$      | <u> </u>       | <u> </u>   | Ш               |  |  |  |  |
| <u> </u> | 85                         | <u> </u>     | <u> </u> |          | <u> </u> | <u> </u> | <u> </u>      | <u> </u>       | <u> </u>   | Ш               |  |  |  |  |
| $\vdash$ | 86                         |              | $\vdash$ | $\vdash$ | _        | <u> </u> | <u> </u>      | <u> </u>       | <u> </u>   | $\vdash \vdash$ |  |  |  |  |
|          | 87<br>88                   | <u> </u>     | $\vdash$ | $\vdash$ | $\vdash$ | <u> </u> |               |                | <u> </u>   | $\vdash$        |  |  |  |  |
|          | 88                         | <u> </u>     | <u> </u> | <u> </u> | _        |          | _             | <u> </u>       | $\vdash$   | $\vdash$        |  |  |  |  |
|          | 89                         | <u> </u>     | -        | $\vdash$ | <u> </u> | L        | -             | <u> </u>       | <u> </u>   | $\vdash$        |  |  |  |  |
| <u> </u> | 90                         | <u> </u>     | ├-       |          |          | $\vdash$ | $\vdash$      | $\vdash$       | $\vdash$   | Н               |  |  |  |  |
|          | 91                         | <u> </u>     | <u> </u> | <u> </u> |          |          | $\vdash$      | $\vdash$       | <u> </u>   | $\vdash$        |  |  |  |  |
| $\vdash$ | 92                         |              | H        | -        |          | <u> </u> |               |                | -  | Н               |  |  |  |  |
| -        | 93                         | <del> </del> | Н        | $\vdash$ | $\vdash$ | $\vdash$ | <u> </u>      | <del> </del> — | <del>-</del>                                     | $\vdash$        |  |  |  |  |
| $\vdash$ | 94<br>95                   | -            | $\vdash$ | $\vdash$ | <u> </u> | $\vdash$ | $\vdash$      | —              |  | $\vdash$        |  |  |  |  |
| $\vdash$ | 96                         | -            |          | H        |          |          | <del>  </del> | -              | -  | <del>  </del>   |  |  |  |  |
| $\vdash$ | 97                         | $\vdash$     | $\vdash$ | $\vdash$ |          | $\vdash$ | $\vdash$      |                | <del> </del>                                     | $\vdash$        |  |  |  |  |
| $\vdash$ | 98                         | -            | $\vdash$ |          |          | -        |               |                |  | Н               |  |  |  |  |
| $\vdash$ | 99                         | -            | -        | $\vdash$ |          | $\vdash$ |               | -              |  | $\vdash$        |  |  |  |  |
|          | 100                        | $\vdash$     | Η-       | -        | —        |          | Н             |                | H  | $\vdash$        |  |  |  |  |

| Cla   | aim      | Date            |          |          |        |          |  |  |          |          | ]   | Cla   | Date     |          |          |           |  |          |  |  |   |
|-------|----------|-----------------|----------|----------|--------|----------|--|--|----------|----------|-----|-------|----------|----------|----------|-----------|--|----------|--|--|---|
| Final | Original |                 |          |          |        |          |  |  |          |          |     | Final | Original |          |          |           |  |          |  |  |   |
|       | 51       | $\dashv$        | ┪        | $\dashv$ | _      | _        | $\vdash$   | -  | -        | ┢        | 1   |       | 101      |          | +        | - -       | +  | t        |  |  | t |
|       | 52       |                 | 寸        | $\dashv$ |        |          |  |  | Т        | Г        | 1   |       | 102      |          | $\top$   |           | 1  | 1        |  |  | T |
|       | 53       | _               | 7        | 1        |        |          | T  |  | Т        |          | 1   |       | 103      |          | T        |           | $\top$   | T        |  |  | T |
|       | 54       | _               | $\neg$   | 寸        |        |          |  | t  | $\vdash$ | T        | 1   |       | 104      | $\dashv$ | 7        |           |  |          |  | Г  | T |
|       | 55       | $\neg$          | 寸        | 寸        |        |          |  |  |          | $I^-$    | 1   |       | 105      | $\neg$   | ┪        |           |  |          |  |  | T |
|       | 56       |                 | ┪        | T        |        |          |  | T  | Τ        | Г        | 1   |       | 106      |          | $\top$   |           |  |          |  |  | T |
|       | 57       |                 | ヿ        | $\neg$   |        |          |  |  |          |          | 1   |       | 107      |          |          |           |  | Т        | Ι  |  | T |
|       | 58       | $\neg$          | _        | $\neg$   |        |          |  |  |          |          | 1   |       | 108      |          | $\top$   | $\top$    |  | 1        | T  |  | T |
|       | 59       |                 |          | T        |        |          |  |  |          |          | 1   |       | 109      |          | T        | 丁         | 1  | Π        | П  | -  | T |
|       | 60       | $\neg \uparrow$ |          | ヿ        |        |          |  |  |          |          | 1   |       | 110      |          | $\top$   | $\top$    |  |          | Г  |  | T |
|       | 61       | $\neg$          | 7        |          |        |          |  |  |          |          | 1   |       | 111      |          |          | $\top$    | 1  | Т        |  |  | T |
|       | 62       | $\neg$          | 7        | _        | _      |          |  |  |          |          | 1   |       | 112      |          |          |           |  |          |  |  | T |
|       | 63       |                 | T        | 一        |        |          |  |  |          |          | 1   |       | 113      |          |          | 1         |  |          |  |  | Γ |
|       | 64       |                 |          | T        |        |          |  |  |          |          | 1 1 |       | 114      |          |          | $\top$    |  | П        | Ī  |  | Τ |
|       | 65       | $\neg$          | 寸        | $\neg$   |        |          |  |  |          |          | 1   |       | 115      |          |          | $\top$    |  |          |  |  | T |
|       | 66       | _               | T        | ┪        |        |          |  |  |          | $\vdash$ | 1   | -     | 116      |          | 1        |           |  |          |  |  | T |
|       | 67       |                 | T        |          |        |          | Г  |  |          |          | 1   |       | 117      |          | _        | 1         |  |          |  |  | T |
|       | 68       |                 | T        | 寸        |        |          |  | t  |          |          | 1 1 |       | 118      |          | $\top$   | $\dagger$ |  | T        | ┰  | <u> </u>   | t |
|       | 69       | _               | $\dashv$ | $\dashv$ |        | _        |  |  |          |          | 1   |       | 119      |          | ┪        | +-        | t  | T        | <b>-</b>   |  | t |
| -     | 70       | 一               | T        | ┪        |        |          |  |  |          | 1        | 1 1 |       | 120      |          | 1        | ┪         | 1  | l        |  |  | T |
|       | 71       | 一               | T        | _        | _      |          |  |  |          |          | 1 1 |       | 121      |          | T        | $\top$    |  |          |  |  | T |
|       | 72       | 一广              | T        | 一        |        |          |  |  | Ι        | Т        |     |       | 122      |          |          | _         | 1  |          |  | $\vdash$   | T |
|       | 73       | 十               |          | $\neg$   |        | _        |  |  | <u> </u> | ļ -      | 1   |       | 123      |          |          | $\top$    |  |          | Г  |  | T |
|       | 74       | $\dashv$        | $\dashv$ | _        |        |          |  |  |          |          |     |       | 124      |          | _        | _         |  |          | Π  | Т  | T |
|       | 75       |                 | 寸        | 一        |        |          |  |  |          |          | 1   |       | 125      |          | ┪        | ┪┈        | T  |          | Г  | _  | T |
|       | 76       | $\dashv$        | T        |          |        | _        | $\vdash$   | <del>                                     </del> |          | m        | 1   |       | 126      |          | T        | 1-        | $\top$   |          |  |  | T |
|       | 77       |                 | 寸        | $\neg$   |        | $\vdash$ |  |  |          | ┢        | 1 1 |       | 127      |          | _        | +         | t  |          | <u> </u>   | _  | t |
|       | 78       | $\dashv$        | $\dashv$ | 1        |        | $\vdash$ | _  |  | $\vdash$ | Ι        | 1 1 |       | 128      |          | $\top$   | +         | T  | _        | $\vdash$   | _  | t |
|       | 79       | $\neg$          | $\dashv$ |          | _      |          | ऻ  |  |          |          | 1   |       | 129      |          | $\top$   | $\top$    | T  |          |  |  | t |
|       | 80       | $\neg$          | $\dashv$ | 7        |        | _        | _  |  |          | İ        | 1   |       | 130      |          | 1        | $\top$    | <del>                                     </del> |          |  | <del>                                     </del> | t |
|       | 81       | $\neg \vdash$   | 十        | _        |        |          |  |  |          |          |     |       | 131      |          | +        | 1         |  |          |  |  | t |
|       | 82       |                 | _        | _        |        |          | T  |  |          |          | 1 1 |       | 132      |          | 1        | $\top$    | T  |          |  | $\vdash$   | t |
|       | 83       | $\dashv$        | 十        | _        | $\neg$ | _        | <del>                                     </del> |  |          |          | 1   |       | 133      |          | $\top$   | +         |  | İ        |  | _  | t |
|       | 84       | $\neg$          | 十        |          | ヿ      |          | 一  |  |          |          | 1   | -     | 134      |          |          | ┪         | _  | T        |  |  | t |
|       | 85       | $\neg$ t        | 十        | $\dashv$ |        |          | $\vdash$   | Н  | _        |          | 1 1 | -     | 135      |          | 1        | $\top$    | T  |          |  |  | t |
|       | 86       | 一               | T        | $\neg$   |        |          | ┰  |  |          |          | 1   |       | 136      | $\neg$   | <u> </u> | 1         | 1  | T        |  |  | t |
|       | 87       | $\neg$          | 1        | $\neg$   |        |          | _  |  |          |          | 1 1 |       | 137      | $\neg$   |          | $\top$    | 1  |          |  |  | T |
|       | 88       | 一               | T        | $\neg$   |        |          | _  | _  |          | _        | 1   |       | 138      |          |          |           | T  |          |  |  | T |
|       | 89       | $\neg$          | _        |          |        |          | Π  |  |          |          | 1 1 |       | 139      |          |          |           |  |          |  |  | T |
|       | 90       | $\neg$          | T        | 寸        |        |          |  | $\vdash$   |          |          | 1 1 |       | 140      |          |          | $\top$    |  |          |  |  | T |
|       | 91       | $\dashv$        | $\dashv$ | $\neg$   | П      |          |  |  |          |          |     |       | 141      |          |          | 1         | Т  |          |  |  | Γ |
|       | 92       | _               | +        | $\dashv$ |        |          |  |  |          | T        |     |       | 142      |          |          | $\top$    | $\top$   | <u> </u> | Г  |  | Γ |
|       | 93       | $\top$          | 1        | $\dashv$ |        | $\Box$   | П  |  |          |          |     |       | 143      | $\neg$   |          |           | T  | Τ        | Г  |  | Γ |
|       | 94       |                 | $\dashv$ | $\dashv$ | ╗      |          | <u> </u>   |  | $\vdash$ | П        |     |       | 144      | $\neg$   | 1        | $\top$    |  |          |  |  | Γ |
|       | 95       |                 | 十        | $\dashv$ | ╡      |          | İ  | $\vdash$   |          | $\vdash$ |     |       | 145      | $\neg$   |          | $\top$    | 1  | $\top$   | T .  |  | Γ |
|       | 96       | 1               | $\top$   | 一        |        |          | Г  | Г  |          |          |     |       | 146      | $\neg$   | 1        | 1         | 1  | П        | <del>                                     </del> |  | T |
|       | 97       | $\top$          | す        | 寸        |        |          |  | Γ  | $\vdash$ | $\Box$   |     |       | 147      |          |          |           | Π  |          | Π  |  | Γ |
|       | 98       |                 | _        |          |        |          |  |  |          |          | ]   |       | 148      |          |          |           |  |          |  |  | Γ |
|       | 99       |                 | T        |          |        |          |  |  |          |          |     |       | 149      |          |          |           |  |          |  |  | Γ |
|       | 100      |                 | $\neg$   |          |        |          |  |  |          |          |     |       | 150      |          |          |           |  |          |  |  | Γ |